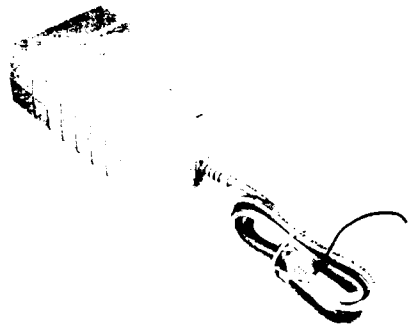
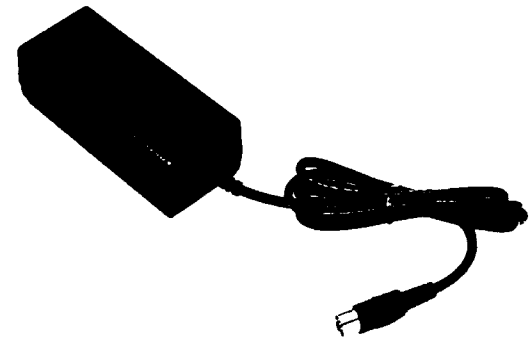
Adapter Series

20 - 30W Plastic Adapter Universal Input Models

The UPS and DT series plastic adapter power supplies provide reliable external DC power for portable or peripheral systems at a very low cost. Universal input and international safety agency approvals as well as many different input and output cord/connector options ensure global application and acceptance. Single, dual and triple output models are available.





FEATURES

- CE (LVD) COMPLIANT
- VDE CLASS 'B' EMI COMPLIANT
- LOW COST FLYBACK TOPOLOGY
- 90-264 VAC UNIVERSAL INPUT
- HIGH-RELIABILITY MOS-FET DESIGN
- UL LISTED TO UL 1950
- TUV APPROVAL TO IEC950/EN60950
- CSA 234 or 1402c LEVEL 3 APPROVAL
- CURRENT MODE CONTROL

GENERAL SPECIFICATIONS

INPUT VOLTAGE:	90-264 VAC, 47-440 Hz. Consult the factory for 400 Hz. operation.
INRUSH CURRENT:	20A @ 115 VAC, 40A @ 230 VAC (thermistor limited).
INPUT FUSING:	2A / 250V.
HOLD-UP TIME:	20 mS, min., from nominal line and full load.
DC OUTPUT:	See selection chart.
SWITCHING FREQUENCY:	40 kHz nominal.
EFFICIENCY:	70% typical.
CONDUCTED EMI:	VDE Class 'B' (see charts).
TEMPERATURE COEFFICIENT:	0.02% / degree C (after 30 min. warmup).
OVERLOAD PROTECTION:	Power limiting - within 150% of total power.
HI-POT ISOLATION:	3750 VAC input to output for 1 minute (DC equiv.).
RIPPLE & NOISE:	1% p-p of output voltage, measured through a 12" twisted pair across a 47uf capacitor.
OVERVOLTAGE PROTECTION:	+5V output exceeding 115% - 135% causes crowbar, automatic recovery.
OPERATING TEMPERATURE:	0° to 50° C at rated continuous load, derating linearly to 50% of rated load at 70° C.
STORAGE TEMP.:	-55° C to 85° C.
HUMIDITY:	5% to 95% R.H. (N.C.).
ALTITUDE:	10,000 ft., 40,000 ft. non-operating.
SAFETY:	UL/CSA/TUV approved.

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Plastic Adapter - Model Selection Chart

OUTLINE 2.95" x 5.79" x 1.77" / 75 x 147 x 45 mm See mechanical drawing on page 20 and connector options on page 21

PWR (1)	MODEL	VOLTAGE	MIN. (2)	FULL (3)	PEAK	W/AIR	REG. (4)	EMI (5)
20W	UPS20-105P	5.0V	0.20A	4.00A	N/A	N/A	±5%	VDE B
20W	UPS20-109P	9.0V	0.20A	2.30A	N/A	N/A	±5%	VDE B
20W	UPS20-112P	12.0V	0.20A	1.70A	N/A	N/A	±5%	VDE B
20W	UPS20-115P	15.0V	0.20A	1.40A	N/A	N/A	±5%	VDE B
20W	UPS20-124P	24.0V	0.20A	1.00A	N/A	N/A	±5%	VDE B
20W	UPS20-102P	+5.0V +12.0V	0.20A 0.10A	1.20A 1.20A	N/A	N/A	±5% ±5%	VDE B
25W	UPS25-121P	+5.0V +12.0V -12.0V	0.20A 0.10A	2.00A 1.00A 0.30A	N/A	N/A	±5% ±5% ±8%	VDE B
25W	UPS25-122P	+5.0V +12.0V -5.0V	0.20A 0.10A	2.00A 1.00A 0.50A	N/A	N/A	±5% ±5% ±8%	VDE B
25W	UPS25-123P	+5.0V +12.0V -5.0V	0.20A 0.05A	4.00A 0.25A 0.20A	N/A	N/A	±5% ±5% ±8%	VDE B

OUTLINE 3.47" x 6.69" x 2.31" / 88 x 170 x 58.7 mm See mechanical drawing on page 20 and connector options on page 21

PWR (1)	MODEL	VOLTAGE	MIN. (2)	FULL (3)	PEAK	W/AIR	REG. (4)	EMI (5)
30W	UPS30-205P	5.0V	0.20A	6.00A	N/A	N/A	±5%	VDE B
30W	UPS30-209P	9.0V	0.20A	3.30A	N/A	N/A	±5%	VDE B
30W	UPS30-212P	12.0V	0.20A	2.50A	N/A	N/A	±5%	VDE B
30W	UPS30-215P	15.0V	0.20A	2.00A	N/A	N/A	±5%	VDE B
30W	UPS30-224P	24.0V	0.20A	1.30A	N/A	N/A	±5%	VDE B
30W	UPS30-V20P	+5.0V +12.0V	0.20A 0.10A	2.00A 1.50A	N/A	N/A	±5% ±5%	VDE B
30W	UPS30-230P	+5.0V +12.0V -12.0V	0.20A 0.10A	1.50A 1.50A 0.30A	N/A	N/A	±5% ±5% ±8%	VDE B

OUTLINE 2.95" x 5.79" x 1.77" / 75 x 147 x 45 mm See mechanical drawing on page 20 and connector options on page 21

PWR (1)	MODEL	VOLTAGE	MIN. (2)	FULL (3)	PEAK	REG. (4)	NOISE & RIPPLE
30W	DT30-1051	5.1 V	0.0A	5A	6A	±5%	50 mV
30W	DT30-1121	12.0 V	0.0A	2.5A	3A	±5%	120 mV
30W	DT30-1151	15.0 V	0.0A	2A	2.5A	±5%	150 mV
30W	DT30-1241	24.0 V	0.0A	1.25A	1.5A	±5%	240 mV
30W	DT30-1002	+5.1 V +12.0 V	0.0A 0.0A	2.5A 1.5A	2A 3A	±4% ±5%	50 mV 120 mV

NOTES:

1. The power supply may be capable of more than the specified continuous and/or peak ratings, depending upon the nature of the application. Consult a factory Sales Engineer for feasibility.
2. Minimum load specified assures output voltage stability for all specified line voltage conditions. Full compliance to the total regulation specification may require additional loading (not to exceed 25% of rated output current for each output). Operation at no load will not damage the power supply.
3. Each output can provide its full rated output current provided the total wattage does not exceed nominal (continuous) rating.
4. Total regulation includes the combined effects of:
   a) initial setpoint of main output (and/or any other adjustable output) of ±1% max.
   b) line regulation for any input voltage change between 90 & 264 VAC.
   c) load regulation for a min. - 100% of rated continuous load change.
   d) cross regulation for a min. - 100% of rated continuous load change on any other output(s) and assumes that the total continuous power rating of the supply is not exceeded. [See Note 2].
   REGULATION PERFORMANCE IS PARTIALLY DEPENDANT UPON OUTPUT CONNECTOR OPTION SELECTED.
5. Units which comply with VDE level B also meet FCC level B.

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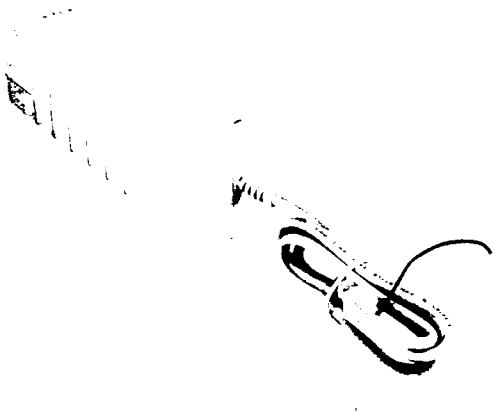
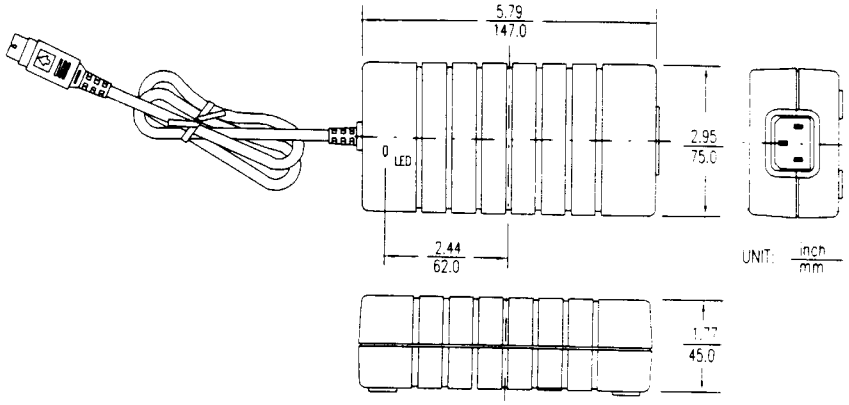
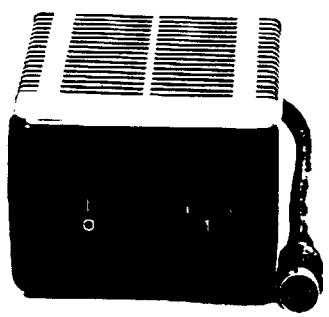
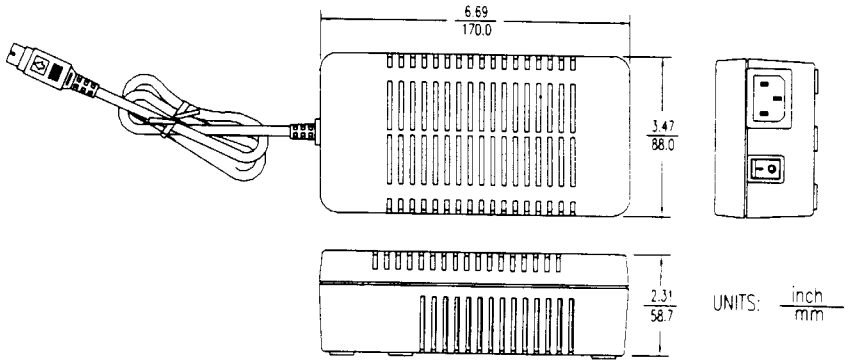




Standard case color: OFF WHITE. (Alternate colors available upon request - consult factory).
See facing page for connector options.

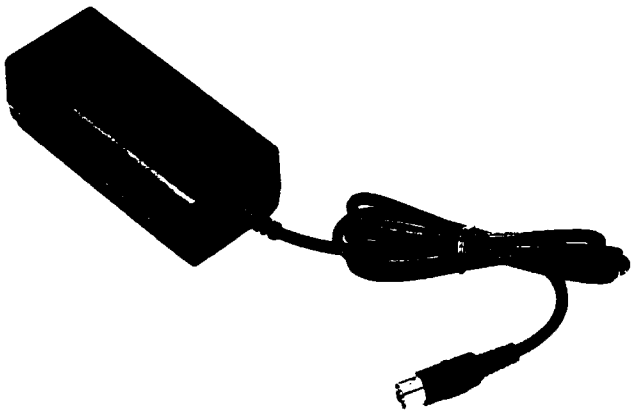
UPS20-1XXP, UPS25-12XP

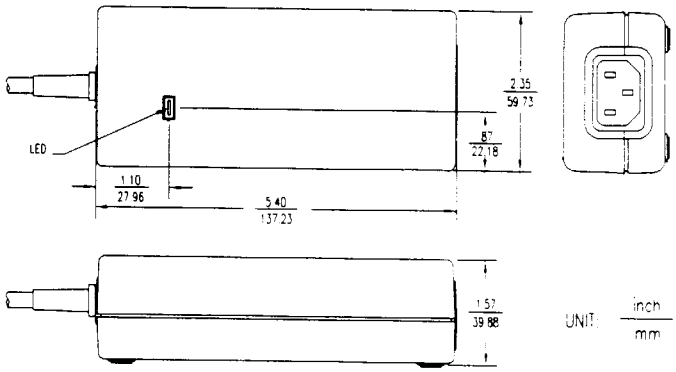




Standard case color: BLACK. (Alternate colors available upon request - consult factory).
See facing page for connector options.

UPS30-2XXP, UPS30-V2OP



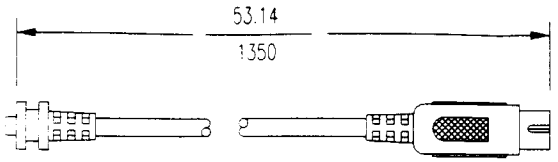


Standard case color: BLACK. (Alternate colors available upon request - consult factory)

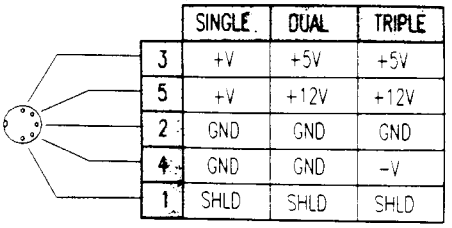
CONNECTOR OPTIONS

SUFFIX

- 5D

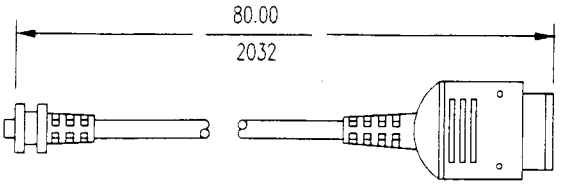


5 PIN DIN

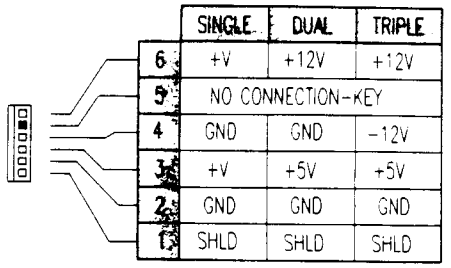


	SINGLE	DUAL	TRIPLE
3	+V	+5V	+5V
5	+V	+12V	+12V
2	GND	GND	GND
4	GND	GND	-V
1	SHLD	SHLD	SHLD

- M

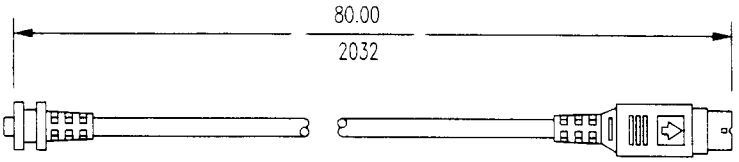


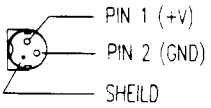
MOLEX 09-50-1061 OR EQUIVALENT



	SINGLE	DUAL	TRIPLE
6	+V	+12V	+12V
5	NO CONNECTION-KEY		
4	GND	GND	-12V
3	+V	+5V	+5V
2	GND	GND	GND
1	SHLD	SHLD	SHLD

- H

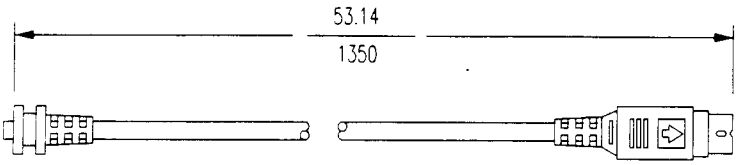


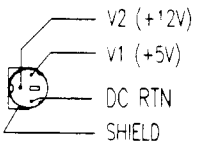


UNIT: inch / mm

HOSIDEN TCP 8927-63-1100 OR EQUIVALENT

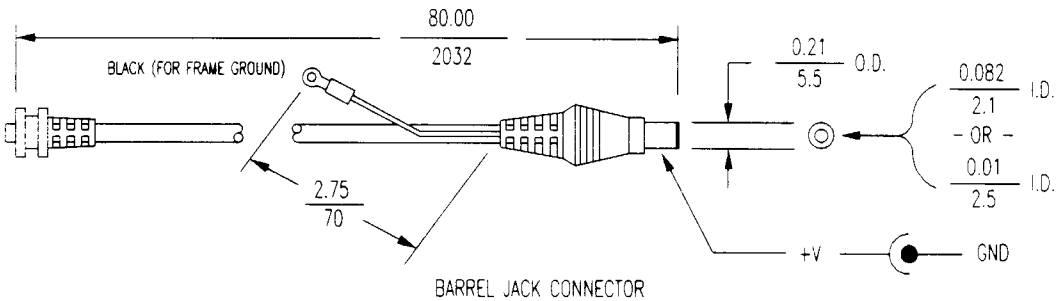
- 3D





3 PIN MINI DIN

- J21
- J25



BARREL JACK CONNECTOR

Note: Not all connector types are available on all models as a standard feature. Some output connector / model number combinations require minimum order quantities and/or additional leadtime. Consult factory for your specific configuration.

Optional A.C. input cables are available as follows: North American, British, Continental Europe, Danish, Italian, Israel, Australia / New Zealand and Swiss.

Minimum order quantities may apply